Oracle® Financial Services Lending and Leasing OAS Installation Guide



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ORACLE

Oracle Financial Services Lending and Leasing OAS Installation Guide, Release 14.12.0.0.0

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Preface

This document contains notes and installation steps needed to install and Configure Oracle Analytics Publisher. Oracle Financial Services Lending and Leasing relies on this software to configure reports and this document is in no way meant to replace Oracle documentation supplied with this Oracle product or available via Oracle technical support. The purpose of this document is only meant to supplement the Oracle documentation and to provide Oracle Financial Services Lending and Leasing specific installation instructions.

For recommendations on security configuration, refer Security Configuration Guide.

Oracle Analytics Publisher installation consists of the following steps.

- Installing OA Publisher
- Configuring OA Publisher
- Creating OA Publisher Datasource
- Importing Reports to OA Publisher Server
- Configuring MDB Mail Server

This section consists of the following topics:

- Prerequisites
- Audience
- Documentation Accessibility
- Diversity and Inclusion
- Conventions

Prerequisites

The following software are required to install Oracle Financial Services Lending and Leasing application and they are available from the following sources:

- Oracle Software Delivery Cloud (http://edelivery.oracle.com/)
- Oracle Technology Network (OTN)
 - JDK Version 1.8.0_301 or above (https://www.oracle.com/technetwork/java/javase/ downloads/jdk8-downloads-2133151.html)
 - Oracle WebLogic Server 12c Version 12.2.1.4.0 (Fusion Middleware Infrastructure Installer) http://www.oracle.com/technetwork/middleware/weblogic/downloads/wlsmain-097127.html
 - The patches for Fusion Middleware 12.2.1.4.0 with the following patch number are to be applied - 30657796. However, this is required only for OAS Linux and can be ignored for OAS windows.

4. Oracle Analytic Server (OAS) 5.9.0 http://www.oracle.com/technetwork/middleware/bipublisher/downloads/index.html

Note:

Please use all 64-bit software's for machine hosted with 64-bit O/S.

Audience

This document is intended for system administrators or application developers who are installing Oracle Financial Services Lending and Leasing Application.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customer access to and use of Oracle support services will be pursuant to the terms and conditions specified in their Oracle order for the applicable services.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Conventions

The following conventions are used in this document:

Table 1 Conventions used

Term	Refers to
Home Directory/ \$OFSLL_HO ME	Oracle Financial Services Lending and Leasing Home Directory



1 Install OA Publisher

The following section explains the steps to install Oracle Analytics publisher.

• Installing OA Publisher

1.1 Installing OA Publisher

Follow the below steps to install Oracle Analytics publisher:

- 1. Download and unzip 'Oracle_Analytics_Server_Linux_5.9.0.zip'.
- 2. Navigate to .jar file location.
- Run the command java -jar Oracle_Analytics_Server_5.9.0.jar The following window is displayed.

elcome	
Welcome	1
Auto Updates	Welcome to Oracle Analytics (5.9.0) Installer.
Installation Location	Please see review the latest <u>Release Notes</u> and <u>Documentation</u> online. Alternatively, context
Prerequisite Checks	sensitive help is available at any time by selecting Help .
Installation Summary	
Installation Progress	
Installation Complete	
	Copyright (c) 1999, 2021, Oracle and/or its affiliates. All rights reserved.

Figure 1-1 Oracle Analytics Installer window

4. Click Next.



Welcome	1	
Auto Updates	Skip Auto Updates	
Installation Location	 Select patches from <u>directory</u> 	
Prerequisite Checks	Location:	Brg
Installation Summary	○ Search <u>M</u> y Oracle Support for Updates	
Installation Progress	Username:	
Installation Complete	Password:	
	Proxy Settings	Test Conne
	Search	

Figure 1-2 Auto Updates window

- 5. Select the option Skip Software Updates.
- 6. Click Next.

Walcomo	FUSION MIDDLEWARE
weicome	· Oracle Home:
Auto Updates	/u01/Middleware/Weblogic12cHome
Installation Location	Feature Sets Installed At Selected Oracle Home: View
Prerequisite Checks	
Installation Summary	
Installation Progress	
Installation Complete	
	this installation.

Figure 1-3 Installation Location

7. Browse Oracle Middleware Home path

(for example /u01/Middleware/Weblogic12cHome) and click Next.

Welcome	1	
Auto Updates	100%	
Installation Location	Charling aparating system cartification	
Prerequisite Checks	Checking operating system certification	
Installation Summary	Checking recommended operating system packages	
Installation Progress	Checking Recommanded alibs version	
Installation Complete	Checking Recommended glibt version	
	Checking physical memory	
	Stop Rerun Skip View Successfu	ıl <u>T</u> asks View <u>L</u> o

Figure 1-4 Prerequisite Check

8. Click Next.

Oracle Analytics - Step 5 of 7		_		\times
Installation Summary				
<u>Welcome</u>	🖃 Install oa_platform			
Auto Updates	Installation Location			
Installation Location	Oracle Home Location: /u01/Middleware/Weblogic12cHome Log File Location: /tmp/OraInstall2020-05-03 11-19-48PM/ing	stall2020-05-0	3 11-19-48PM	1
Prerequisite Checks	.log			
Installation Summary	Disk Space Pequired: 7385 MB			
Installation Progress	Available: 15323 MB			
Installation Complete				
	Save Response File Select Install to accept the above options and start the installation. To change the above options before starting the installation, select t	he option to c	hange in the l	left
	pane or use the Back button.			
Help	< <u>Back</u> <u>N</u> ext	> Insta	ll Canc	el

Figure 1-5 Installation Summary

9. Click Install.

Welcome	FUSION MIDDLEWARE	1.
Auto Updates	100%	
Installation Location Prerequisite Checks Installation Summary Installation Progress	Image: Prepare Image: Copy Image: Generating Libraries	
Installation Complete	 Performing String Substitutions Linking Setup 	
	Saving the inventory Post install scripts	
	View <u>M</u> essages ✓ <u>V</u> iew Successful Tasks	View
	Applica Driving Profita	ations able Grow

Figure 1-6 Installation Progress

10. Click Next. Once the installation is complete click $\ensuremath{\mathsf{Finish}}$ to close.

Figure 1-7 Installation Complete

Oracle Analytics - Step 7 of 7						\times
Installation Complete		F			1	
Installation Complete Welcome Auto Updates Installation Location Prerequisite Checks Installation Summary Installation Progress Installation Complete	 Install oa_platform Installation Location Oracle Home Location: /u01/Middleware Log File Location: /tmp/Oralnstall2020-4 .log 	FI e/Weblogic124 05-03_11-19-4	CHome 48PM/install20	20-05-03_	11-19-4	3PM
	oa_platform installation completed successfully					
Help		< <u>B</u> ack	Next >	<u>F</u> inish		ancel



2 Configure OA Publisher

The following sections details the steps to configure OA Publisher.

- Configuring OA Publisher
- Verifying Successful OA Publisher Deployment

2.1 Configuring OA Publisher

After installing OA Publisher, the next step is to configure OA Publisher.

To configure OA Publisher

1. Launch configuration window and browse to \$BI_HOME/bin

(for example, BI_HOME is /u01/Middleware/Weblogic12cHome/bi).

2. Run./config.sh.

The following window is displayed.

Oracle Analytics - Step 1 of 10		<u></u>	
Welcome			
Welcome	Welcome to Oracle Analytics (5.9.0) Config	uration Assistant	
<u>Components</u>	welcome to oracle Analytics (5.5.0) coming		
Prerequisite Checks			
Define Domain			
Database Schema			
Port Management	Copyright (c) 1999, 2021, Oracle and/or its affi	liates. All rights reserved.	
Initial Content			
Summary			
Configuration Progress			
Configuration Complete			
Help		< <u>B</u> ack <u>N</u> ext > <u>F</u> inis	Cancel

Figure 2-1 Oracle Analytics Configuration Assistant window



3. Select the option **Oracle Analytics Publisher** and Click **Next**.

omponents	FUSION MIDDLEWARE
Welcome Components	You're about to configure Oracle Analytics (5.9.0) . For more information, see Installing and Configuring Oracle Analytics Server, Context-sensitive help is available by
Prerequisite Checks	clicking Help.
Define Domain	Components to include
Database Schema	Oracle Analytics Server
Port Management	Includes components such as data visualization, analyses, dashboards, and agents.
Initial Content	✓ Oracle Analytics Publisher
Summary	Includes Publisher for pixel-perfect reports.
Configuration Progress	

Figure 2-2 Configuration

4. Click Next.



Welcome		
Configuration	100%	
Prerequisite Checks	Checking operating system certification	_
Define Domain	Checking recommended operating system packages	
Database Details	Checking kernel parameters	
Port Management	Checking Recommended glibc version	
Initial Application	Checking physical memory	
<u>Summary</u>	Checking Java version used to Jaunch the installer	
Configuration Progress		
Configuration Complete		
	Step Denus Chip Waw Successful Tasks	
		L

Figure 2-3 Prerequisite Checks

 Enter the User Name, Password and Domain Name for OA Publisher domain. Click Next. The following window is displayed.

efine Domain			
Welcome Configuration Prerequisite Checks Define Domain	The domain is the bas reside in one domain. credentials. The domain files inclu	ic unit of WebLogic administration. All Oracle Analytics com The domain needs a place to store files, and initial adminis de configuration files, log files, and data files.	ponents strator
Database Details Port Management Initial Application	The credentials define default accounts are o users.	the initial administrator account. For security reasons no o reated. Use this initial account to create inidvidual accounts	ther s for your
Summary Configuration Progress Configuration Complete	Domains Directory Domain Name	/u01/Middleware/Weblogic12cHome/user_projects/domains	Browse
	Domain Home Credentials for new	/u01/Middleware/Weblogic12cHome/user_projects/domains,	/bi
	Username	weblogic	
	Confirm Password		
	Enter a password for the The password must be a with an alphabetic charac	System Administrator. minimum of 8 and not exceed 30 alphanumeric characters. ter use only alphanumeric underscore () dollar (\$) or po	. It must be
	characters and include at	ter, use only appraidment, underscore (_), dollar (\$) or po t least 1 digit.	una (#)

Figure 2-4 Define Domain

- 6. Select the option **Create New Schema** and specify the Schema prefix, Schema password, database type, user name, password, simple connect string.
- 7. Click Next.



Figure 2-5	Database	details
------------	----------	---------

Oracle Analytics - Step 5 of 10				_		\times
Database Schema				.C. WARE	1)
Welcome Configuration Prerequisite Checks Define Domain Database Details Port Management Initial Application Summary Configuration Progress Configuration Complete	Database schemas are required f schemas are distinct from any da The simplest option is to create n existing schemas you created ear advance gives you aditional optior directory /u01/Middleware/Weblogi	or storage of inte ta sources which ew database sch dier using the Rep is, such as choos icl2cHome/oracle OFSLL ••••• Oracle Databas sys ••••• ofsll.oracle.com	emas here. Alternative bository Creation utility sing tablespaces. RCU e_common/bin.	ormation Oracle /	Analytics. Analytics. an use Jsing RCU in ble in	n
Help		<	Back Next >	<u>F</u> inish	Car	ncel

8. Click Next.

Oracle Analytics - Step 6 of 10					_		
Port Management			FL		WARE	1	
Welcome	Choose the ports for Oracle	e Analytics and WLS	S processe	es to use.			
Define Domain	Port Range Starting Port	7500					
Database Details	Port Range End Port	9999					
Port Management							
Initial Application							
Summary							
Configuration Progress							
	•						
Help			< <u>B</u> ack	<u>N</u> ext >	Finish	Car	nc

Figure 2-6 Port Management

9. Click Next.

Oracle Analytics - Step 7 of 10	- 0
nitial Application	
Welcome Configuration Prerequisite Checks Define Domain Database Details Port Management Initial Application Summary Configuration Progress Configuration Complete	Choose the application that will be installed into your initial service instance. This can be the default sample application, an application archive exported from another Oracle Analytics installation or you can choose to start with a clean slate. Your own existing Oracle Analytics Application from export bundle (.jar file) Clean Slate (no predefined application) Clean Slate (no predefined application)

Figure 2-7 Initial Application

10. Click Configure.

Figure 2-8 Summary

Oracle Analytics - Step 8 of 10	- D	\times
Summary		
y <u>Welcome</u>	🖃 Configure	
Configuration	Configuration	
Prerequisite Checks	Components	
	Oracle Analytics Publisher	
Define Domain	New domain	
Database Details	Domain Name: bi	
Port Management	Domains Directory: /u01/Middleware/Weblogic12cHome/user_projects/domains	
	Admin server (HTTP port 7500, HTTPS 7501, Internal 7504)	
	Database	
Summary	New schemas	
Configuration Progress	Database type: ORACLE	
Configuration Complete	Connect string: ofsll.oracle.com:1521:OLLMDR	
o comparation complete	New RCU prefix: OFSLL	
	Port Management	
	Port range	
	Port range start: 7500	
	Port range end: 9999	
	Application	
	Archive: /u01/Middleware/Weblogic12cHome/oui/mw/common/framework/bin	
	Service Instance Key: ssi	
		-
	Save Response File: Save	
	Click Save to generate a response file used for silent installation.	
Help	0 Configure Components Domain SDirectory: //01/Middleware/Weblogic12cHome/user_projects/domains Admin server (HTTP port 7500, HTTPS 7501, internal 7504) Managed server (HTTP port 7502, HTTPS 7503, internal 7505) Database Database Database Connect string: ofsll.oracle.com:1521:OLLMDR New RCU prefix: OFSLL Dort range Port range start: 7500 Port range end: 9999 Port range start: 7500 Port range end: 9999 Port range start: 7500 Port range file: Save Click Save to generate a response file used for silent installation. Click Save to generate a response file used for silent installation. Cancel Save Configure Cancel Save Cancel Save Configure Cancel Save Configure Cancel Save Cancel Save Cancel Save Configure Cancel Save Cancel Cancel Cancel Save Cancel Sav	

11. Click Next.



Welcome	Configuration Tools	
Configuration	Name	Progress
Prerequisite Checks	- Voracle Analytics Configuration	100%
Define Domain	Create default domains dir	Success
Detabase Details	Create expanded domain	Success
Database Details	Create schemas using RCU	Success
Port Management		Success
Initial Application	Complete domain	Success
Summary	Store port range	Success
Co-florenting December	Sync mid tier database	Success
Configuration Progress	Add default service instance	Success
Configuration Complete	Store JMS credential	Success
	Cleaning up issues	Success
	🗄 🗌 🖌 Oracle_Analytics_Startup	100%
	- Oracle_Analytics_Epilogue	100%
	Configuration Log Location: /u01/Middleware/Weblogic	12cHome/install2020-05-04_07-44-49AM.lc

Figure 2-9 Configuration Progress

- **12.** Click **Save** and save the Response File.
- **13.** Click **Finish**. The application will create a new domain for OA Publisher with the details as highlighted in the above screen.

2.2 Verifying Successful OA Publisher Deployment

Successful OA Publisher deployment can be verified by launching the OA Publisher URL http://hostname:<port>/xmlpserver.



The following sections details the steps to be followed to create OA Publisher Datasource.

- Creating OA Publisher Datasource
- Creating Roles

3.1 Creating OA Publisher Datasource

To create OA Publisher Datasource, do the following:

1. Access the console URL using http://hostname:<port>/xmlpserver.

Figure 3-1 Sign in page

Sig Plea User 1 Pass Acce	In In se enter username and password mame word sssibility Mode
Acce	ssibility Mode
Pass	ssibility Mode
Acce	essibility Mode
	English (United States)
pyright © 2003, 2017, Oracle and/or its affiliates. All rights reserved.	

2. The following window is displayed. Click Administration option on the header.

	Search					~ (vorministration	нер т	Sign O	ut
lome			Home	Catalog	New 💌	9	Open 🐨	Signed In As	weblogic	
Create	Recent									
Report	Reports									
Ä	Others									
Report Job	Favorites Mar	nage								
Data Model										
More 👻										
Browse/Manage										
Report Jobs										
Report Job History										

Figure 3-2 Home page

3. Click on JDBC Connection.

Administration	Home	Catalog	New 👻	Open 🐨	Signed In As	weblogic 🔻
Data Sources	Sy	stem Maintenar	nce			
UDBC Connection File LDAP Connection OLAP Connection Web Service Connection HTTP Connection Content Server	Se Sc Ri M M	erver Configuratio sheduler Configur sheduler Diagnos sport Viewer Con anage Cache anage Job Diagn	n ation tics figuration ostics Log			
Security Center	R	Intime Configur	ation			
Security Configuration Roles and Permissions Digital Signature	Pr Fo Cl	operties int Mappings urrency Formats				
Delivery	In	tegration				
Delivery Configuration Printer Faits Email WebDAV HTTP FTP Content Server CUPS Server Content and Experience	0	aole Bi Presenta	tion Services			

Figure 3-3 Administration page

4. Click Add Data Source.

Administration		Home	Catalog	New 🔻	Open 🔻	Signed In As	weblogic
dministration > JDBC							
Data Sources							
JDBC File LDAP OLA	AP Web Services HTTP	Content Server					
Add Data Source							
Data Source Name	Connection Strin	ng		Delete			
Orade BI EE	jdbc:oraclebi://@H	OST_NAME:PORT/		×			

Figure 3-4 JDBC page

- 5. Add the following details:
 - Specify Data Source Name as FLLReportsPool.
 - Click on **Test Connection**.
 - Under **Security** section, select **BI Author Role** and **BI Consumer Role** from Available Roles and assign them as Allowed Roles.

Note:

If "BI Author" and "BI Consumer" roles are not displayed in the 'Available Roles' section, you need to create the roles as explained in following 'Creating Roles' section



ORACLE Analytics	Search	All		٣			0,	Administratio	n Help 🔻	Sign Out	
Administration			Home	Cata	alog	New	Ŧ	Open 🔻	Signed In As	weblogic	1
General											
TIP Please make sure to install the required JDBC driv TIP With Oracle Fusion Middleware Security Model, se TIP Not all JDBC data sources support Data Gateway	er classes. lect the Use Sy	stem User (checkbox to use th	e Bl Syst	em Use	r for your E	31 Ser	ver Database Con	nection.		
* Data Source Name	FLLReportsPo	ol									
* Driver Type	Oracle 12c										
* Database Driver Class	oracle.jdbc.Or	acleDriver									
* Connection String	(Example: oracle.)c	bc.OracleOrive	r)								
Connection string	jdbc:oracle:th	in:@ofsll.or	acle.com:1521/OL	LDB							
Use System User						11					
* Username	OFSLLREL										
Password											
Pre Process Function											
Post Process Function											
Client Certificate											
Use Proxy Authentication											
	Test Connec	tion									
Backup Data Source											
STIP To enable access to a backup data source, please	check the Use	Backup Dat	ta Source checkbo	x and ent	er the n	ecessary o	onne	ction information.			
Use Backup Data Source											
Connection String											
						11					
Username											
Password											

Figure 3-5 Details page

6. Click Apply.

3.2 Creating Roles

The following sections details the steps to be followed to create "BI Author" and "BI Consumer" roles which are used to define security roles while creating Data Source on OA Publisher.

- Creating WebLogic Application Role
- Creating WebLogic Application Policies

3.2.1 Creating WebLogic Application Role

To create WebLogic Application Role

- 1. Login to Enterprise Manager using the URL http://hostname:port/em.
- Select Weblogic Domain > Security > Application Roles as indicated in the following screen.



1 Infc	Home										
Cert	Monitoring	> you own	n the edit session	lock. To obta	in the lock, click	"Lock and	Edit" in the Change Center	menu.			
Serve	Diagnostics Control Logs	⊧ ⊧ ⊧	v er Name A	AdminServer							
	Environment	Þ	Host	ofsII. in	.oracle.com						
Clust	Deployments JDBC Data Sources		Listen Port	9600							
	Messaging	Create	🗙 Delete	Control 🔻	Ę						
	Cross Component Winng Web Services	•		Status	Cluster	Mach	State	Health	Eis Po	CPU Usage (%)	He Usa (N
	Other Services	r(admin)		1			Running	ок	96(0.00	755.
Depic	Administration	Þ		1	bi_cluster	m	Running	ОК	96(0.00	336.
Doma	Refresh WebLogic Domain Security JNDI Browser System MBean Browser	Þ									
	Target Sitemap		Columns Hidden	34						Server	s 2 of 2

Figure 3-6 WebLogic Application Role 1

3. In the Application Stripe field, select **obi** from the drop-down list. The option **OAServiceAdministrator** is added by default. Click **Create**.

Figure 3-7 WebLogic Application Role 2

Application Roles Application roles are the roles used application. To manage users and groups in the Policy Store Provider	by security aware he WebLogic Dor	e applications that are specific to t main, use the <u>Oracle WebLogic S</u>	the application. These roles are seeded by applications in single global policy store when the applications are registered. These are also application roles that are created in the context of end users arear Security Provider
A Search			
Select an application and enter a sea	arch keyword for t	the role name to search for roles	defined by this application. Use the application stripe to search if the application uses a stripe that is different from the application name.
Applicatio	on Stripe obi	-	
Ro	ole Name Starts	s With	>
View 🔻 🎽 Create 🖺	Create Like	🖋 Edit 🗙 Delete	
4			
Role Name	Displ	ay Name	Description
BIServiceAdministrator	BI Ser	rvice Administrator	This role confers privileges required to administer a service instance.
Membership for BIServ	riceAdminist	rator	
Principal Displ	lay Name	Type D	escription
weblogic weblo	ogic	User T	his user is the default administrator.

- 4. Specify the following details:
 - Role Name
 - Display Name
 - Description

Figure 3-8 WebLogic Application Role 3

Create Application F Role (or Enterprise Role) is the General	Role group of users designed at the enterprise level and	typically used to assign a privilege or permission. A rol	e can also contain other roles as members.		OK Cancel
Application Stripe	obi				
* Role Name	BIConsumer				
Display Name	BIConsumer				
Description	The base-level role that grants the user access to existing analyses, dashboards and agents, allows them to run or schedule existing BI Publisher reports, but not create any new ones.				
Members An application role may need to	be mapped to users or groups defined in enterpris	LDAP server, or the role can be mapped to other appli	cation roles.		
View + Add × C	Delete				
Name				Display Name	Туре
No groups or application roles	added.				



5. Click Add to add the application role to the members family. The same can later be mapped to required Users or Groups defined in Enterprise LDAP server, or the role can be mapped to other application roles.

Create Applicatio	on Role		OK Cancel
General	s the group of users designed) at the enterprise level and typically used to assign a privilege or permission. A role can also contain other roles as memoers.	
Add Principal			
Specify criteria to search and	I select the application roles	that you want to grant permissions to.	
		Type User	
		Principal Name Starts With •	
		Display Name Starts With •	
Searched Principals			
View + 🔄 Detach			
Principal	Display Name	Description	
LCMUser		This is the default service account for WebLogic Server Lifecycle Manager configuration updates.	
OracleSystemUser		Oracle application software system user.	
weblogic		This user is the default administrator.	
Advanced Option			
Check to enter principa	I name here instead of searc	thing from above. This option can be used for advanced scenarios related to custom authenticators.	
			Cancel

Figure 3-9 WebLogic Application Role 4

6. Add the Weblogic User by selecting **weblogic** in the **Searched Principals** section and click **OK**. The Weblogic User is added to the application role.

Figure 3-10 WebLogic Application Role 5

Create Application Role (or Enterprise Role) is the	Role e group of users designed at the enterprise level and typics	ally used to assign a privilege or permission. A role can also contain other roles as members.		OK Cancel
General				
Application Stripe	obi			
* Role Name	BIConsumer			
Display Name	BIConsumer			
Description	The base-level role that grants the user access to existing analyses, dashboards and agents, allows them to run or schedule existing BI Publisher			
Members An application role may need	to be mapped to users or groups defined in enterprise LDA	P server, or the role can be mapped to other application roles.		
View + Add 🗙	Delete S Detach			
Name			Display Name	Туре
weblogic				User

7. Click OK. The new role is added to the list of application roles.

Figure 3-11 WebLogic Application Role 6

Application Roles			
Application roles are the roles used application.	by security aware ap	oplications that are specifi	c to the application. These roles are seeded by applications in single global policy store when the applications are registered. These are also application roles that are created in the context of end users accessing t
🚱 To manage users and groups in t	ne WebLogic Doma	in, use the <u>Oracle WebLo</u>	gic Server Security Provider
Policy Store Provider			
⊿ Search			
Select an application and enter a se	arch keyword for the	role name to search for r	oles defined by thi Capplication. Use the application stripe to search if the application uses a stripe that is different from the application name.
Application	on Stripe obi		
Ro	le Name Starts Vi	ith 💌	•
View 👻 🎽 Create	Create Like 🥖	🖉 Edit 🗙 Delete	🕞 📓 Detac
1			
Role Name	Display	Name	Description
BIServiceAdministrator	BI Servic	e Administrator	This role confers privileges required to administer a service instance.
BIConsumer	BIConsu	imer	The base-level role that grants the user access to existing analyses, dashboards and agents, allows them to run or schedule existing BI Publisher reports, but not create any new ones.
Membership for BIServ	iceAdministra	tor	
Principal Displ	ay Name	Туре	Description



3.2.2 Creating WebLogic Application Policies

To Create WebLogic Application Policies

- 1. Login to Enterprise Manager using the URL http://hostname:port/em.
- Select Weblogic Domain > Security > Application Policies as indicated in the following screen:

Figure 3-12 WebLogic Application Policies 1

t=	🖕 WebLogic Domain 👻		Apr 22, 2016 1:12:45 PM 15T 🕥
1 Int	Home		
Ar	Monitoring	>	
/Domain	Diagnostics	•	
Appli	Control	•	
Applicat applicat	Logs	ons that are specific to the application. These roles ar	e seeded by applications in single global policy store when the applications are registered. These are also application roles that are created in the context of end users accessing the
🛿 To ma	Environment	e the Oracle WebLogic Server Security Provider.	
Pol	Deployments		
🛋 Sea	JDBC Data Sources		
Select a	Messaging	ame to search for roles defined by this application. Us	e the application stripe to search if the application uses a stripe that is different from the application name.
	Cross Component Wiring		
	Web Services		
View	Other Services	t 💥 Delete	E Detach
1	Administration	•	
Ro	Refresh WebLogic Domain	e Description	
BIS	Security	Security Realms fers privileges	required to administer a service instance.
BIC	System MBean Browser	Users and Groups el role that gr	ants the user access to existing analyses, dashboards and agents, allows them to run or schedule existing BI Publisher reports, but not create any new ones.
	WebLogic Server Administration Console	Credentials	
.⊿ Me	Target Sitemap	Security Provider Configuration	
Princi	Target Information	Application Policies	
weblog	ic weblogic	Application Roles fault adminis	rator.
		Keystore	
		System Policies	
		Audit Policy	

3. In the Application Stripe field, select obi from the drop-down list. Click Create.

Figure 3-13 WebLogic Application Policies 2

Application Policies Application policies are the authorizati of To manage users and groups in the Policy Store Provider	on policies that an application relies u WebLogic Domain, use the <u>Oracle W</u>	on for controlling access to its resources. ebLogic Server Security Provider.				
⊿ Search						
Select an application and enter the se	earch keyword for principals or permise	ions to query application security grants. Use the application stripe to sear	ch if the application uses a stripe	that is different from the application name.		
Application	a Stripe obi	•				
Princip	al Type Application Role 💌					
Principa	Name Starts With					
View 👻 🎽 Create	Create Like 🖋 Edit 🗙 Dele	te				🖙 🗟 Detach
1						
Principal	Display Name	Description				
BIServiceAdministrator	BI Service Administrator					
A Policies for BIServiceAd	Iministrator					
Permissions						
Resource Name			Resource Type	Permission Actions	Permission Class	Permission Set
oracle.bi.publisher.administerServer			oracle.bl.publisher.permi	_all_		bip.administrator

4. In Create Application Grant screen, under the Grantee section, click Add.



Figure 3-14 WebLogic Application Policies 3

Create Application	Grant					OK Cance
or managing an application (policy, select a particular grantee and attach	h a permission to it.				
Application Stripe obi						
Grantee						
Select the grantees (user, gro	oup or application role) you want to add to th	he policy.				
View - + Add >	Colete 🔐 Detach					
Name	Display Name	Туре	Description			
No users or groups added.						
Permissions						
Select from permissions and	I resources used in this application. Enter s	search criteria to search fo	r right permissions.			
View - + Add	Edit X Delete 💭 Detach					
Permission Class				Resource Name	Re Permission Tyj Actions	Permission Set
No permissions added.						

5. Select the newly created application role from the list and click **OK**. The new role is added to the list.

Application strips out	Add Principal				
Grantee Select the grantees (user, group or application role) you war View + Add X Delete 🔐 Detach	Specify criteria to search and se	lect the application roles that y	ou want to grant permissions to.		
Name Display Name		Type Applicat	tion Role 💌		
No users or groups added.		Principal Name Starts V	vm •		
ermissions					
Select from permissions and resources used in this application	iti Searched Principals				
View 👻 🕂 Add 🥒 Edit 💥 Delete 🙀	View 👻 📰 Detach				
Permission Class	Principal	Display Name	Description	Re Permission	Permission S
No narmissions addad	anonymous-role	Anonymous Role		IJI Actions	
ro permissions added.	authenticated-role	Authenticated Role			
	BIConsumer	BIConsumer	The base-level role that grants the user access to existing analyses, dashboards and agents, allows them to run or schedule existing BI Publisher reports, but not create any new ones.		
	BIServiceAdministrator	BI Service Administrator	This role confers privileges required to administer a service instance.		

Figure 3-15 WebLogic Application Policies 4

6. In the **Permissions** section, click **Add**.

Figure 3-16 WebLogic Application Policies 5

Create Application Gr	ant					OK	Cancel
For managing an application polic	cy, select a particular grantee and attac	h a permission to it.					
Application Stripe obi							
Grantee							
Select the grantees (user, group	or application role) you want to add to I	the policy.					
View - + Add X De	elete 🛞 Detach						
Name	Display Name	Туре	Description				
BIConsumer	BlConsumer	Application Role	The base-level role that grants the user access to existing analyses, dashboards a	nd agents, allows them to run or schedule	existing BI Publisher reports, but not create a	any new ones	<i>i</i> .
Permissions							
Select from permissions and res	ources used in this application. Enter	search criteria to search for righ	t permissions.				
View 🔻 🕂 Add 🦯 Edi	t 💥 Delete 🗟 Detach						
Permission Class				Resource Name	Re Permission Tyj Actions	Permiss	sion Set
No permissions added.							

7. In the search criteria, select **Resource Type** and select the resource type from the dropdown list. Select the required resource from the search results and click **Continue**.



Application Stripe obl			Add Permission		×		
Grantee Select the grantees (user, group or View + + Add × Dek Name BiConsumer	application role) you want to add to the term of the second secon	he policy. Type Applica	Select from permissions and resources use Search Permissions Resource Type Resource Type oracle bip ut	d in this application. Enter search criteria to	o search for right permissions.	m to run or schedule existing BI Publisher reports, but no	create any new ones.
			Resource Name Starts With	•			
Permissions			Search Results				
Select from permissions and reso	arces used in this application. Enter s	search criteria to s	Resource Name	Display Name	Description		
View 💌 🕂 Add 🥒 Edit.	X Delete 🙀 Detach		oracle.bi.publisher.accessExcelRepo	BIP Access Excel Report Analyzer			
Description Class			oracle.bi.publisher.accessOnlineRep	BIP Access Online Report Analyzer		Re Permis	sion Description C
Permission class			oracle.bi.publisher.accessReportOut	BIP Access Report Output		Tyj Action:	i Permission 3
No permissions added.			oracle.bi.publisher.administerServer	BIP Administer Server			
			oracle.bi.publisher.developDataModel	BIP Develop Data Model			
			oracle.bi.publisher.developReport	BIP Develop Report			
			oracle.bi.publisher.runReportOnline	BIP Run Report Online			
			oracle.bi.publisher.scheduleReport	BIP Schedule Report			

Figure 3-17 WebLogic Application Policies 6

8. Define the required permission(s) for the application role by selecting the appropriate Permission Class and Permissions Actions check box. Click **Select**.

Figure 3-18 WebLogic Application Policies 7

Create Application Gran	nt elect a particular grantee and attact	h a permission to it.						OK Cancel
Application Stripe obi								
Grantee								
Select the grantees (user, group or a	pplication role) you want to add to t	the policy.						
View 👻 🕂 Add 🔀 Delete	e 🔐 Detach				_			
Name	Display Name	Туре	Descrip	Add Permission	×			
BIConsumer	BIConsumer	Application Role	The bas			rds and agents, allows them to run or schedule existing	BI Publisher reports, but not create a	iny new ones.
				✓ Customize				
Permissions Select from permissions and resour View • + Add / Edit Permission Class	ces used in this application. Enter : X Delote 🔐 Detach	search criteria to search for rigi	ht permissior	Permission Class Resource Type Resource Name	n	Resource Name	Re Permission	Permission Set
No permissions added.				Permission Actions			iyi Acuons	
				Back Select C	ancel			

9. The selected permissions are defined to the application role. Similarly you can define the required permissions for other application roles.



r managing an application pol	rant icy, select a particular grantee and attact	n a permission to it.			OK Cance
pplication Stripe obi					
rantee					
elect the grantees (user, group	o or application role) you want to add to th	he policy.			
View - + Add 🔀 E	Jelete 🗑 Detach				
Name	Display Name	Type	Description		
BIConsumer	BIConsumer	Application Role	The base-level role that grants the user access to existing analyses, dashboards and agents, allows them to run or achedule existing BIP	ublisher reports, but not create :	any new ones.
BIConsumer	BIConsumer	Application Role	The base-level role that grants the user access to existing analyses, dashboards and agents, allows them to run or achedule existing BIP A germissions.	ublisher reports, but not create :	any new ones.
BIConsumer missions elect from permissions and re Arew v Add Permission Class	BIConsumer	Application Role	The base-level role that grants the user access to existing analyses, dashboards and agents, allows them to run or achedule existing BI P argenmissions. Resource Name	bilisher reports, but not create : Re Permission Tyj Actions	Permission Set
BIConsumer missions elect from permissions and re Arew v + Add v En Permission Class oracle.security.jps.Resourc	BiConsumer BiConsumer sources used in this application. Enters attX. Deterte	Application Role	The base-level role that grants the user access to existing analyses, dashboards and agents, allows them to run or a chedule existing BI P t permissions. Resource Name oracle bigobilither access/DnlineReport/inal/cer	Re Permission Ty Actions or a _all_	Permission Set
BIConsumer missions elect from permissions and re new + Add Permission Class oracle.secunty.jps.Resourc oracle.secunty.jps.Resourc	BiConsumer BiConsumer sources used in this application. Enter s at X Delete Detech ePermission	Application Role	The base-level role that grants the user access to existing analyses, dashboards and agents, allows them to run or schedule existing BI P or permissions. Resource Name oracle Supplisher access OnlineReportMatger oracle Supplisher oracle Supplisher access OnlineReportMatger oracle Supplisher oracl	All and the second seco	Permission Set

10. Once done, click **OK**.



Figure 3-20 WebLogic Application Policies 9

Application Policies Application policies are the authoriza	ation policies that an application relies u he WebLogic Domain, use the <u>Oracle V</u>	ipon for controlling access to its resources. VebLogic Server Security Provider				
Policy Store Provider						
▲ Search						
Select an application and enter the	search keyword for principals or permis	sions to query application security grants. Use the	a application stripe to search if the application uses a strip	e that is different from the application	name.	
Applicati	on Stripe obi	•				
Princ	ipal Type Application Role 💌					
Princip	pal Name Starts With 💌	•				
View 👻 🎽 Create	Create Like 🖋 Edit 🗙 Dele	ete				🖙 🔐 Detach
1						
Principal	Display Name	Description				
BIConsumer	BIConsumer					
BIServiceAdministrator	BI Service Administrator					
✓ Policies for BIConsum Permissions	er					
Resource Name			Resource Type	Permission Actions	Permission Class	Permission Set
oracle.bi.publisher.runReportOnlin	0		oracle.bi.publisher.permi	_all_	oracle.security.jps.ResourcePermission	
oracle.bi.publisher.accessOnlineR	eportAnalyzer		oracle.bi.publisher.permi	_all_	oracle.security.jps.ResourcePermission	
erects hi publicher access DreelDe	norténsitzer		oracle bi publisher permi	all	orada securitying ResourcePermission	



4 Import Reports to OA Publisher Server

The following section details how to import ofsll application reports to OA Publisher Server.

Importing Reports to OA Publisher Server

4.1 Importing Reports to OA Publisher Server

To import ofsll application reports to OA Publisher Server, do the following:

- 1. Copy and extract the OFSLLReports.zip file to staging area.
- 2. Launch the Oracle Analytics Intelligence Publisher Application using http://
 hostname:port/xmlpserver.
- 3. Login with valid credentials.

	Sign In Please enter username and password	
	Username	
	Password	
	Accessibility Mode 📄	
	English (United States)	
Copyright © 2003, 2017, Oracle and/or its affilia	ites. All rights reserved.	

Figure 4-1 OA Publisher Server 1

4. Following window is displayed. Click on **Catalog Folders** on the left pane.



	•	earon All				Anuminisuation	nep *	Sign Out
ome			Home	Catalog	New *	Open 🔻	Signed In As	weblogic
Create	Recent							
Report	Reports							
-	Others							
Report Job	Favorites	Manage						
Data Model								
More 🔻								
Browse/Manage								
Catalog Folders								
Report Jobs Report Job History								

Figure 4-2 OA Publisher Server 2

5. Click on Shared Folders option and then click Upload.

atalog				Home	Catalog	New *	Open 🔻	Signed In As	weblogic	٣
+* ± ±	• 3. B I	i× ≓+	Location	/Shared Folde	rs		•		(0
Folders		Compon Expand	ents Last Mo	dified 5/4/20 8:I	03 AM Create	ed By				
My Folders		Samples	Last Modifie	5/4/20 8:38 A	M Created By	(
A 📄 Shared Fold	ders	Expand	More w							
Compone	ents									
Samples										
Tasks		ł								
Tasks Tasks	lers .	Ĩ								
Tasks	lers	ł								
Tasks Tasks Shared Fold Expand Delote	lers ↑_Upload →_Download	ł								
Tasks Shared Fold Expand Delete Copy	lers ↑_Upload ↓ Download ↓ Cut	ł								
Tasks Shared Fold Expand Delete Copy	lers ↓ Doload ↓ Download ↓ Cut □] Rename	ł								
Tasks Shared Fold Expand Copy Paste Permissions	lers									

Figure 4-3 OA Publisher Server 3

6. The following window is displayed. Browse to the location where the oracle.xdrz file is saved. Click the **Overwrite Existing File** check box if you are overwriting an existing directory.



Figure 4-4 OA Publisher Server 4

7. Click on Upload.



Figure 4-5 OA Publisher Server 5



Figure 4-6 OA Publisher Server 6

 Once the upload is completed, click any folder to see the list of reports under the directory. The following window is displayed.

ORACLE' Analytics	Search All v Q Administration Help v Sig	n Out 🔹
Catalog	Home Catalog New v Open v Signed In As weblo	gic v
+* * * * * *	X Z V Location /Shared Folders/oracle/fil/xmlp/reports	0
Folders	corgen_em_100_01 Last Modified 5/4/20 6:04 PM Created By weblogic corgen_em_100_01 Open Schedule Jobs Job History Edit More *	î
Shared Folders Components	objrpt_em_100_01 Last Modified 5/4/20 6:04 PM Created By weblogic Batch Jobs Report Open Schedule Jobs Job History Edit More ▼	
🖌 🛅 oracle	ocobnk_em_100_01 Last Modified 5/4/20 6:04 PM Created By weblogic ocobnk_em_100_01 Open Schedule Jobs Job History Edit More +	
xmlp im correspondence	coccol_em_100_01 Last Modified 5/4/20 8:04 PM Created By weblogic coccol_em_100_01 Open Schedule Jobs Job History Edit More ▼	
reports	ococcol_em_100_02 Last Modified 5/4/20 8:04 PM Created By weblogic ococcol_em_100_02 Open Schedule Jobs Job History Edit More ▼	
Samples	ococcol_em_100_03 Last Modified 5/4/20 8:04 PM Created By weblogic coccol_em_100_03 Open Schedule Jobs Job History Edit More ▼	
Tasks	ococcol_em_100_04 Last Modified 5/4/20 8:04 PM Created By weblogic coccol_em_100_04 Open Schedule Jobs Job History Edit More *	
Expand .t. Upload	ococcol_em_100_05 Last Modified 5/4/20 6:04 PM Created By weblogic coccol_em_100_05 Open Schedule Jobs Job History Edit More *	
Copy % Cut	ococcol_em_100_06 Last Modified 5/4/20 6:04 PM Created By weblogic coccol_em_100_08 Open Schedule Jobs Job History Edit More ▼	
Paste 🔄 Rename	ococol_em_100_07 Last Modified 5/4/20 6:04 PM Created By weblogic ococol_em_100_07 Open Schedule Jobs Job History Edit More ▼	
C* Export XLIFF	ococol_em_100_08 Last Modified 5/4/20 8:04 PM Created By weblogic ococol_em_100_08 Open Schedule Jobs Job History Edit More ▼	

Figure 4-7 OA Publisher Server 7



5 Configure MDB Mail Server

The following section details the steps to configure the MDB (Message Driven Bean) email server.

Configuring MDB Mail Server

5.1 Configuring MDB Mail Server

Refer to the following instructions to configure the MDB email server. This is required for outbound email communications.

1. Launch the Oracle Analytics Publisher application (http://hostname:port/xmlpserver).

The following window is displayed.

ORACLE Analytics		
	Sign In Please enter username and password Username I Password Accessibility Mode Sign In Sign In	
Copyright © 2003, 2017, Oracle and/or its	iffiliates. All rights reserved.	

Figure 5-1 MDB Mail Server 1

 Login using the valid credentials. The following window is displayed.



lome		Home	Catalog	New *	Open	v	Signed In As	weblogic
loine			a				- Signed in the	
Create	Recent							
Report	Reports							
-	Others							
Report Job	Favorites Manage							
Data Model								
More 👻								
Browse/Manage								
Catalog Folders								
Report Job History								

Figure 5-2 MDB Mail Server 2

3. Click Administration.



Data Sources System Maintenance JDBC Connection Scheduler Configuration Pile Scheduler Configuration OUAP Connection Scheduler Configuration Veb Schiele Connection Manage Cob HTTP Connection Manage Cob HTTP Connection Manage Cob Ontent Server Runtime Configuration Security Center Runtime Configuration Security Configuration Properties Robust Properties Delivery Integration Delivery Integration Privery Orable BI Presentation Services Part Properties Final TP Year Server Content Server Orable BI Presentation Services	Administration	Home	Catalog	New	*	Open	Ŧ	Signed In As	weblogic
JDBC Connection File LDAP Connection OLAP Connection OLAP Connection Web Service Configuration HTTP Connection HTTP Connection Content Server Security Center Security Center Security Configuration Relea and Permissions Digital Signature Delivery Delivery Configuration Final Fax Final Final Content Server Current Server Current Server Current Server Current Server Current Server Current Server Content and Experience	Data Sources	s	ystem Maintenan	ce					
Security Center Runtime Configuration Security Configuration Properties Roles and Permissions Font Mappings Digital Signature Currency Formats Delivery Configuration Permissions Currency Formats Delivery Configuration Printer Currency Formats Fax Properties Final Oracle BI Presentation Services Prime Fragman WebDAV HTTP FTP Content Server Content and Experience Content and Experience	JDBC Connection File LDAP Connection OLAP Connection Web Service Connection HTTP Connection Content Server	S S S S F N N	Server Configuratio Scheduler Configur. Scheduler Diagnost Report Viewer Conf Janage Cache Janage Job Diagno	n ation ics iguration ostics Log					
Security Configuration Roles and Permissions Properties Font Mappings Currency Formats Delivery Integration Delivery Configuration Printer Fax Email WebDAV HTTP FTP Content Server CuPPS Server Content and Experience Oracle BI Presentation Services	Security Center	F	Runtime Configura	ation					
Delivery Integration Printer Oracle BI Presentation Services Fax Email WebDAV HTTP FTP Content Server CUPS Server Content and Experience	Security Configuration Roles and Permissions Digital Signature	F	Properties Font Mappings Currency Formats						
Delivery Configuration Oracle BI Presentation Services Printer Pax Email WebDAV HTTP FTP Content Server CUPS Server Content and Experience	Delivery	h	ntegration						
	Delivery Configuration Printer Fax Email WebDAV HTTP FTP Content Server CUPS Server Content and Experience	c	Drade BI Presentat	ion Services					

Figure 5-3 MDB Mail Server 3

4. Click Email.

The following window is displayed.

Figure 5-4 MDB Mail Server 4

ORACLE [*] Analyti	cs Seard	All	*	् Administrat	ion Help 🔻 Sign Out 🚥
Administration		Home	Catalog New	v Open v	Signed In As weblogic 🔻
Administration > Email					0
Delivery					
Delivery Configuration Printer	Fax Email WebDAV	HTTP FTP Content	Server Content and Experie	noe CUPS Server	
Server Name	Host	1	Port	Delete	
Add Server					

5. Click Add Server.



Administration				Home Catal	og New	*	Open 🔻	Signed I	in As w	eblogic 🔻
dministration > Email > /	Add Server	r								0
Confirmation Connection established	l successfi	ully.								
Add Server										
							Test Con	nection	Apply	Cancel
General										
* Serve	er Name	ofsll.oracle.com		* Hos	t ofsll.oracle	com				
	Port	25		Secure Connectio	n None	•				
ecurity										
ecurity Us	sername			Passwor	d					
ecurity Us ccess Control	sername			Passwor	9					
ecurity Us .ccess Control	sername Publi	c Ø		Passwor	9					
ecurity ∪s uccess Control	sername Public Ava	c 🗹		Passwor	4					
Security Us	Publi Ava Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi	c I allable Roles Consumer Content Author Data Model Author Service Administrato V Consumer V Content Author	r Mov Rem	Passwor Allowed Roles All ove	a a	M M M				

Figure 5-5 MDB Mail Server 5

- 6. Specify the Server details (server name, host, and port number) and click **Test Connection**. On completion, a confirmation message is displayed as indicated.
- 7. Click Apply.



Administration		Home	Catalog	New	*	Open 🔻	Signed	In As v	veblogic •
Administration > Email > Add Serv	er								0
Confirmation Connection established success	fully.								
Add Server									
						Test C	onnection	Apply	Cancel
General									
* Server Name	ofsll.oracle.com		* Host	ofsll.oracle.c	om				
Port	25	Secure (Connection	None	•				
Security									
occurry									
Username			Password						
Username			Password						
Username Access Control			Password						
Username Access Control Publ	lic Ø		Password						
Username Access Control Publ A:	lic 🕑	Allowed	Password						
Username Access Control Pub A:	tic II vailable Roles BI Consumer	Allowed	Password Roles		A				
Username Access Control Publ Ar	tic 🕑 vailable Roles BI Consumer BI Content Author BI Datalad Author	Allowed Move	Password		A				
Username Access Control Pub Ar	tic 🕑 vailable Roles 31 Consumer 31 Content Author 31 Datalad Author 31 Data Model Author	Allowed	Password	A	A 2 2				
Username Access Control Au Au	lic II vailable Roles 31 Consumer 31 Content Author 31 Data Model Author 31 Data Model Author 31 Service Administrator 20 Consumer	Allowed Move	Password	A	M 4 P M				
Username Access Control Au Au Au Bu Bu Bu Bu Bu Bu Bu Bu Bu Bu Bu Bu Bu	tic vailable Roles 31 Consumer 31 Data Model Author 31 Data Model Author 31 Satar Vice Administrator DV Consumer DV Consumer	Allowed Move Move All Remove	Password	· · · · · · · · · · · · · · · · · · ·	M 4 P M				
Username Access Control Pub A E E E E E E E E E E E	tic vailable Roles Consumer Content Author Di Data Model Author Di Data Model Author SI Service Administrator DV Consumer DV Consumer DV Content Author	Allowed Move Move All Remove	Password		A 4 A				

Figure 5-6 MDB Mail Server 6

8. The MDB email server is successfully added as indicated.

Figure 5-7 MDB Mail Server 7

ORACLE' Analyt	ics Search /	All	٩, ١	Administration Help 🔻	Sign Out
Administration		Home Cata	og New w	Open 🔻 Signed In As	weblogic 🔻
Administration > Email Delivery					0
Delivery Configuration Printer	Fax Email WebDAV H	TTP FTP Content Server C	ontent and Experience CUP	'S Server	
Server Name	Host	Port	De	efault Dele	te
ofsll.oracle.com	ofsll.oracle.com	25		< X	
Add Server					